

4 ~~a bus with a bus device coupled thereto;~~
5 an interface coupling the network to the bus, the interface and host
6 coordinating to tunnel bus events over the network between the host and
7 the bus device by encapsulating bus events into network protocols,
8 transferring the encapsulated bus events over the network, and
9 subsequently decapsulating the bus events to recreate the bus events, [The
10 system defined in Claim 1] wherein the host runs an application that
11 generates packets for the bus device and relies on an operating system that
12 includes a driver for the bus device that issues the bus device packets and
13 redirects the bus device packets to a network stack that encapsulates the bus
14 device packets to create a network packet and sends the network packet to a
15 remote bus device via the interface, the interface thereafter decapsulating the
16 network packet to obtain the bus device packet and forwarding the bus
17 device packet to the bus device.

1 12. (Amended) A system comprising:
2 a network having a host coupled thereto, the host executing software
3 to generate packets for communication on the network;
4 a bus with a bus device coupled thereto;

5 an interface coupling the network to the bus, the interface and host
6 coordinating to tunnel bus events over the network between the host and
7 the bus device by encapsulating bus events into network protocols,
8 transferring the encapsulated bus events over the network, and
9 subsequently decapsulating the bus events to recreate the bus events, [The
10 system defined in Claim 1] wherein the bus device generates bus device
11 packets for transport to the host and sends the bus device packets on the
12 bus, the interface encapsulating the bus device packets into a network packet
13 and forwards the network packet to the host, the host executing a network
14 driver that decapsulates the network packet, identifies bus device packets
15 therein and redirects the bus device packets to a bus device driver running
16 thereon.

1 ~~19. (Amended) A method of controlling devices across a [the]~~
2 network comprising:
3 capturing bus events generated on a bus;
4 encapsulating the captured bus events into packets associated with a
5 network protocol using an interface;

As Cont. 16 ~~decapsulating the encapsulated bus event and recreating them at a~~
7 remote site transparently to a user using information in the header of the
8 ~~packet.~~

1 ~~30. (Amended) A system comprising:~~
2 an Internet Protocol (IP) Ethernet network having a host coupled
3 thereto, the host executing software to generate packets for communication
4 on the network;
5 a serial bus with a bus device coupled thereto, where transfers occur
6 to and from the bus device which adhere to the IEEE-1394 bus standard;
7 an interface coupling the network to the bus, the interface and host
8 coordinating to transport bus events between the host and the bus device via
9 tunneling bus events over the network by capturing and encapsulating the
10 bus events into network protocols and subsequently decapsulating the bus
11 events and recreating them, [The system defined in Claim 22] wherein the
12 host runs an application that generates packets for the bus device and relies
13 on an operating system that includes a driver for the bus device that issues
14 the bus device packets and redirects the bus device packets to a network
15 stack that encapsulates the bus device packets to create a network packet

16 ~~and sends the network packet to a remote bus device via the interface, the~~
17 ~~interface thereafter decapsulating the network packet to obtain the bus~~
18 ~~device packet and forwarding the bus device packet to the bus device.~~

1 31. (Amended) A system comprising:

2 an Internet Protocol (IP) Ethernet network having a host coupled
3 thereto, the host executing software to generate packets for communication
4 on the network;

5 a serial bus with a bus device coupled thereto, where transfers occur
6 to and from the bus device which adhere to the IEEE-1394 bus standard;

7 an interface coupling the network to the bus, the interface and host
8 coordinating to transport bus events between the host and the bus device via
9 tunneling bus events over the network by capturing and encapsulating the
10 bus events into network protocols and subsequently decapsulating the bus
11 events and recreating them, [The system defined in Claim 22] wherein the
12 bus device generates bus device packets for transport to the host and sends
13 the bus device packets on the bus, the interface encapsulating the bus device
14 packets into a network packet and forwards the network packet to the host,
15 the host executing a network driver that de-encapsulates the network

a3
cont.
16 packet, identifies bus device packets therein and redirects the bus device
17 packets to a bus device driver running thereon.

a4
cont.
1 ~~38. (Amended) A system comprising:~~
2 an Internet Protocol (IP) Ethernet network having a host coupled
3 thereto, the host executing software to generate packets for communication
4 on the network;
5 a serial bus with a bus device coupled thereto, where transfers occur
6 to and from the bus device which adhere to the USB bus standard;
7 an interface coupling the network to the bus, the interface and host
8 coordinating to transport bus events between the host and the bus device via
9 tunneling bus events over the network by capturing and encapsulating the
10 bus events into network protocols and subsequently decapsulating the bus
11 events and recreating them, [The system defined in Claim 33] wherein the
12 host runs an application that generates packets for the bus device and relies
13 on an operating system that includes a driver for the bus device that issues
14 the bus device packets and redirects the bus device packets to a network
15 stack that encapsulates the bus device packets to create a network packet
16 ~~and sends the network packet to a remote bus device via the interface, the~~

17 interface thereafter decapsulating the network packet to obtain the bus
18 device packet and forwarding the bus device packet to the bus device.

1 39. (Amended) A system comprising:

2 an Internet Protocol (IP) Ethernet network having a host coupled
3 thereto, the host executing software to generate packets for communication
4 on the network;

5 a serial bus with a bus device coupled thereto, where transfers occur
6 to and from the bus device which adhere to the USB bus standard;

7 an interface coupling the network to the bus, the interface and host
8 coordinating to transport bus events between the host and the bus device via
9 tunneling bus events over the network by capturing and encapsulating the
10 bus events into network protocols and subsequently decapsulating the bus
11 events and recreating them, [The system defined in Claim 33] wherein the
12 bus device generates bus device packets for transport to the host and sends
13 the bus device packets on the bus, the interface encapsulating the bus device
14 packets into a network packet and forwards the network packet to the host,
15 the host executing a network driver that de-encapsulates the network

24 July
CWA
16 packet, identifies bus device packets therein and redirects the bus device

17 packets to a bus device driver running thereon.
